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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/686,865	10/16/2003	Walter Schubert	S159 1030.1	7435	
	7590 09/19/200 RLYLE SANDRIDGE	EXAMINER			
P.O. Box 7037			MOSS, KERI A		
Atlanta, GA 30357-0037			ART UNIT	PAPER NUMBER	
		1797			
			MAIL DATE	DELIVERY MODE	
			09/19/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application	on No.	Applicant(s)				
055 - 4 - 4	10/686,86	65	SCHUBERT, WALTER					
Office Action Summary				Art Unit				
		KERI A. M		1797				
The MAILING E Period for Reply	ATE of this communica	ntion appears on the	e cover sheet with the o	correspondence ad	ddress			
WHICHEVER IS LON - Extensions of time may be a after SIX (6) MONTHS from - If NO period for reply is spec - Failure to reply within the set	FUTORY PERIOD FOR GER, FROM THE MAI vailable under the provisions of 3 the mailing date of this communi fified above, the maximum statut or extended period for reply will fice later than three months after ent. See 37 CFR 1.704(b).	LING DATE OF TH B7 CFR 1.136(a). In no evication. ory period will apply and w , by statute, cause the app	HIS COMMUNICATION Thent, however, may a reply be ting If expire SIX (6) MONTHS from the second ABANDONE	N. mely filed the mailing date of this of the (35 U.S.C. § 133).	•			
Status								
1) Responsive to a	communication(s) filed	on 18 August 2008						
2a) This action is FI)⊠ This action is n						
´ =	•	· 		osecution as to the	e merits is			
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <i>1-10 a</i>	nd 21 is/are pending in	the application.						
·	Claim(s) <u>1-10 and 21</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
·	6)⊠ Claim(s) <u>1-10 and 21</u> is/are rejected.							
· · · · · · · · · · · · · · · · · · ·	is/are objected to.							
	are subject to restrictio	n and/or election r	equirement.					
Application Papers	•							
<u> </u>	via abjected to by the F	Evaminar						
10) The drawing(s) f	is objected to by the E		□ objected to by the	Evaminor				
	t request that any objection		-					
					ED 1 121/d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
·	-	y the Examiner. No	ne the attached Office	Action of form 1	10-102.			
Priority under 35 U.S.C.								
1.☐ Certified of Certified of	ne * c) None of: copies of the priority do copies of the priority do	ocuments have bee	n received. n received in Applicat	ion No				
· · · · · · · · · · · · · · · · · · ·	the certified copies of	•		ed in this National	Stage			
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
[^] See the attached	detailed Office action f	or a list of the certi	fied copies not receive	ea.				
Attachment(s)			_					
1) Notice of References Cite		. 0.40)	4) Interview Summary Paper No(s)/Mail D					
2) Notice of Draftsperson's F3) Information Disclosure St	Patent Drawing Review (PTO atement(s) (PTO/SB/08)	7 -94 8)	5) Notice of Informal F					
Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 18, 2008 has been entered.

2. Claims 1-10 and 21 are pending.

Response to Amendment

- 3. The objection to claim 2 has been withdrawn in light of applicants' amendments and arguments.
- 4. Previous rejections of claims 1-10 under 35 USC 102(b) as anticipated by Ryan et al. and Mansfeld et al. have been withdrawn in light of applicants' amendments and arguments.

Claim Rejections - 35 USC § 102

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims **1-10** are rejected under 35 U.S.C. 102 (b) as being anticipated by Wahle et al. (USP 6,242,220).

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Wahle discloses a method for preparing biological samples for analysis, comprising placing the biological sample on a two-dimensional support, applying protein-precipitating or denaturing first solution L1 to the biological sample on the support at a first temperature for a predetermined first time period (column 10 lines 8-15); applying a protein-precipitating or denaturing solution L2 to the biological sample on the support at a second temperature for a predetermined second time period on the support, with T2 being lower than T1 (column 10 lines 15-21); and then drying the sample on the support (column 10 lines 16-17). An additional air drying of the sample takes place between process steps b) and c) (column 10 lines 9-10). The biological sample is a cell sample (column 9). Solution L1 is a solution with a critical pH value and solution L2 is a salt solution. T1 covers a temperature range of -10 degrees Celsius to 60 degrees Celsius (column 10 lines 8-15). After step d), the biological samples are subjected to a protein-chemical separation method (column 10 lines 22-30).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 9. Claims **1-10 and 21** are rejected under 35 U.S.C. 103(a) as being unpatentable over Stapleton (USP 5,436,129) in view of Wahle et al. (USP 6,242,220). Stapleton discloses a method for preparing biological samples for analysis (Example 1) comprising applying the sample to a slide, applying solutions to the sample to denature the protein (column 18 lines 36-50), changing the temperature of the sample (column 17 lines 27-45) and drying the sample between treatments (column 17 lines 24-26; column 18 lines 14-17; column 18 lines 49-50).

Stapleton does not expressly teach applying the protein denaturing solution at one temperature, then leaving the solution while lowering the temperature. Wahle is analogous art as it also discloses a method of preparing a biological sample for analysis. Wahle discloses a method for preparing biological samples for analysis, comprising placing the biological sample on a two-dimensional support, applying protein-precipitating or denaturing first solution L1 to the biological sample on the support at a first temperature for a predetermined first time period (column 10 lines 8-15); applying a protein-precipitating or denaturing solution L2 to the biological sample on the support at a second temperature for a predetermined second time period on the

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support, with T2 being lower than T1 (column 10 lines 15-21); and then drying the sample on the support (column 10 lines 16-17). An additional air drying of the sample takes place between process steps b) and c) (column 10 lines 9-10). The biological sample is a cell sample (column 9). Solution L1 is a solution with a critical pH value and solution L2 is a salt solution. T1 covers a temperature range of -10 degrees Celsius to 60 degrees Celsius (column 10 lines 8-15). After step d), the biological samples are subjected to a protein-chemical separation method (column 10 lines 22-30).

An advantage of the Wahle protocol is that it is available in kit form, thus making it faster and easier to conduct the sample preparation (Example 1). Thus, it would have been obvious to apply the protocol of Wahle to the slide preparation of Stapleton in order to gain the advantages of shorter preparation time.

Response to Arguments

10. Applicant's arguments, see Request for Continued Examination, filed 8/18/08, with respect to the rejection(s) of claim(s) 1-10 under Ryan et al. and Mansfeld et al. have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Wahle et al. as well as in view of Stapleton (USP 5,436,129) and further in view of Wahle et al.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KERI A. MOSS whose telephone number is (571)272-8267. The examiner can normally be reached on 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on (571)272-1700. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Keri A. Moss/ Examiner, Art Unit 1797 /Jill Warden/ Supervisory Patent Examiner, Art Unit 1797